

Figure 1

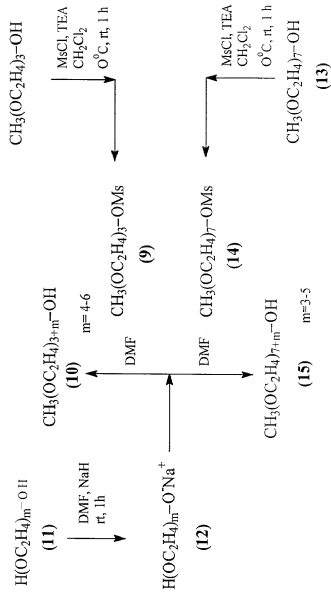


Figure 2



Figure 3

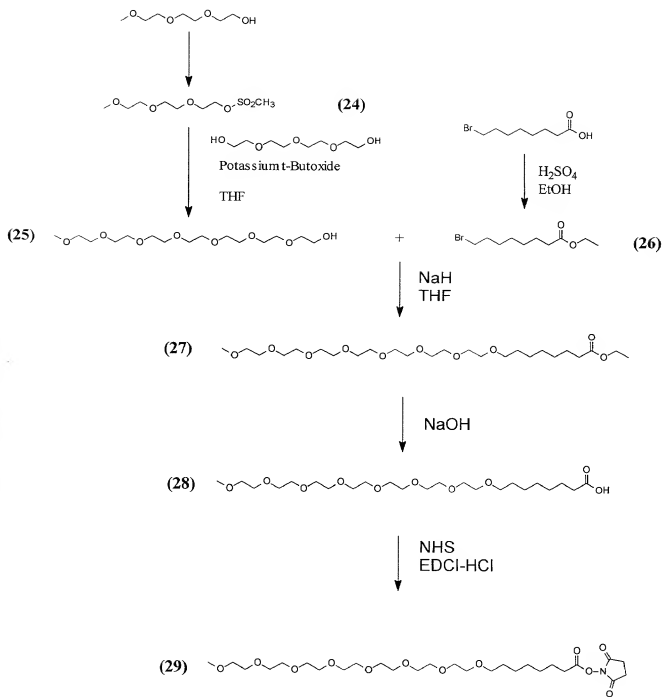


Figure 4

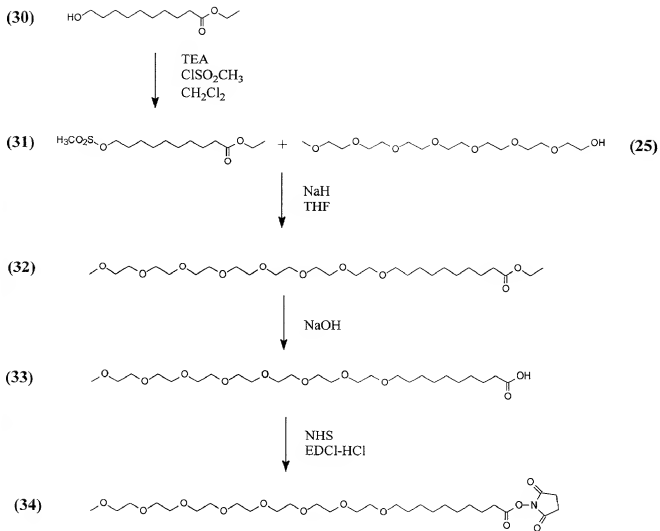


Figure 5

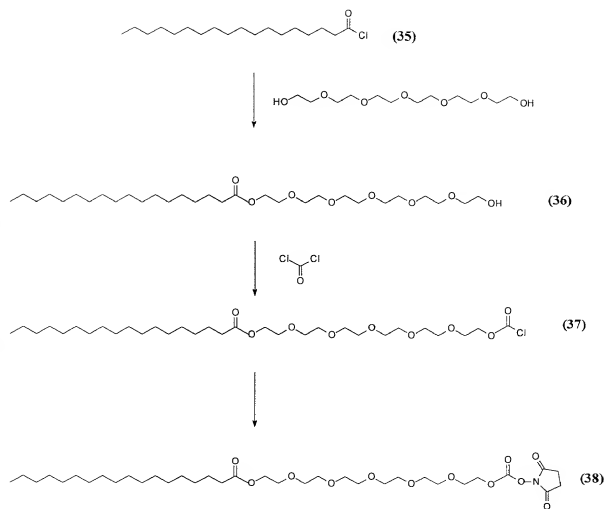
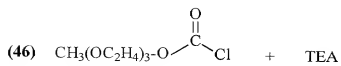
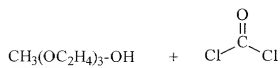


Figure 6



DCM

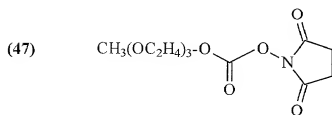


Figure 8

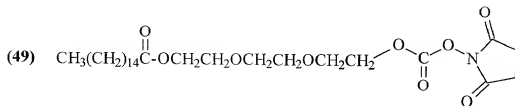
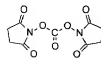
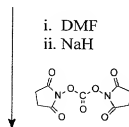
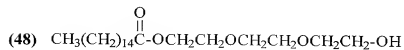
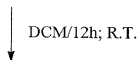
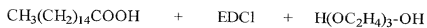
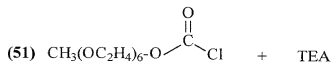
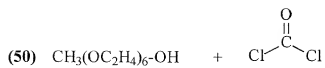


Figure 9



DCM

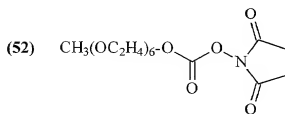
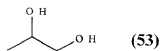
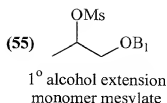


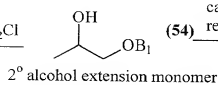
Figure 10



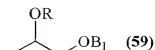
\downarrow 1° alcohol
blocking
reagent



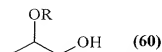
$\xleftarrow{\text{MeSO}_2\text{Cl}}$



$\xrightarrow{\text{capping reagent}}$

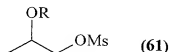


\downarrow B₁
de-blocking
reagent



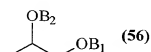
1° alcohol capping monomer

\downarrow MeSO₂Cl

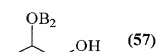


2° alcohol capping
monomer mesylate

\downarrow 2° alcohol
blocking
reagent

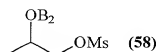


\downarrow B₁
de-blocking
reagent



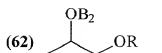
1° alcohol extension monomer

\downarrow MeSO₂Cl

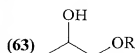


2° alcohol extension
monomer mesylate

$\xleftarrow{\text{capping reagent}}$

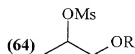


\downarrow B₂
de-blocking
reagent



2° alcohol capping monomer

\downarrow MeSO₂Cl



1° alcohol capping
monomer mesylate

Figure 11

Downloaded from ascelibrary.org by University of California, San Diego on 06/01/15. Copyright ASCE, For All Rights Reserved, No part of this document may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage or retrieval system, without permission in writing from ASCE.

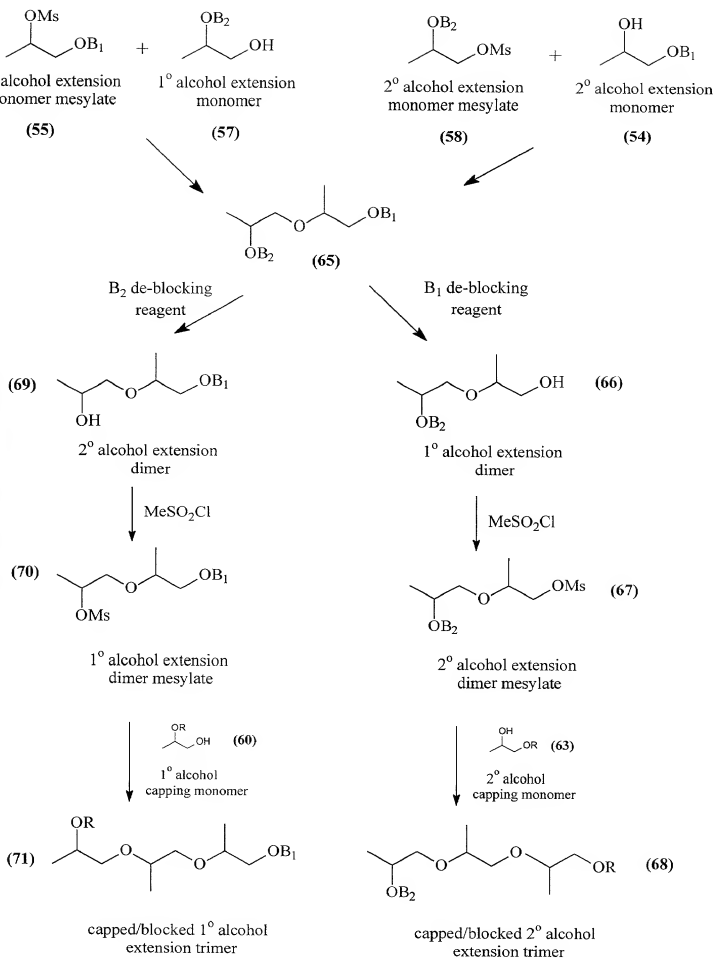


Figure 12

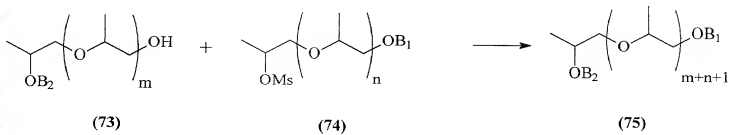
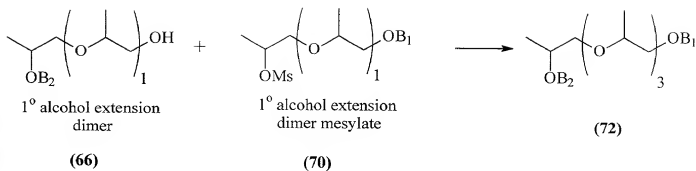


Figure 13

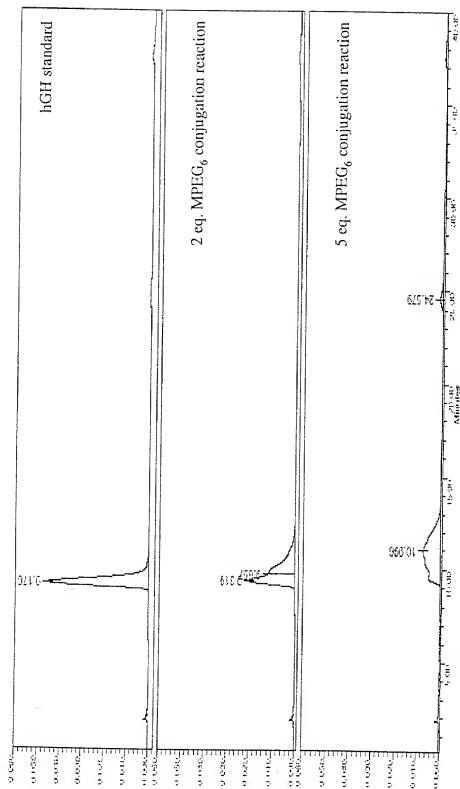


Figure 14

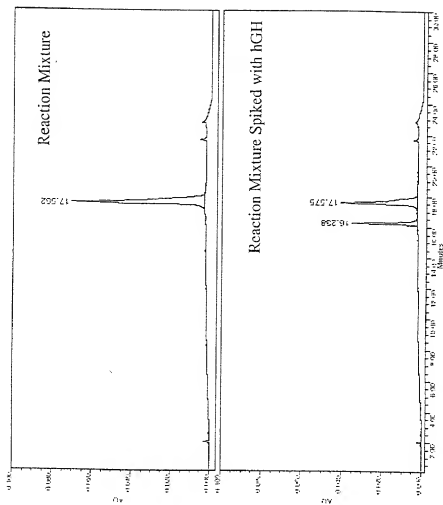


Figure 15

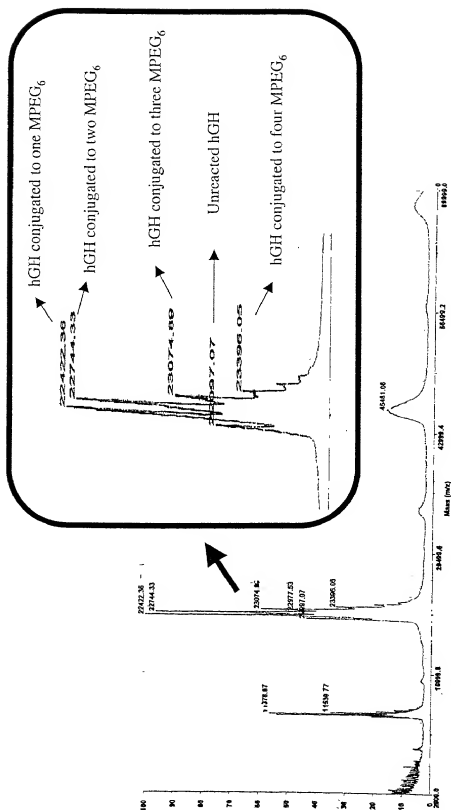
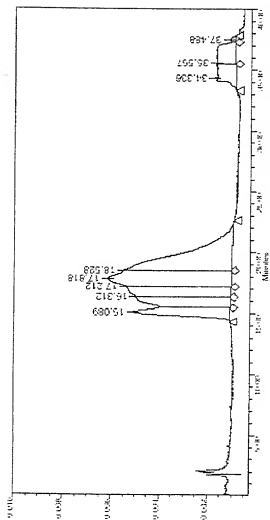


Figure 16



HPLC gradient: 50% to 70% acetonitrile in 30 minutes

Fraction	Retention Time (min.)	Area
150-AO-109A	15.089	155714
150-AO-109B	16.312	179786
150-AO-109C	17.212	221177
150-AO-109D	17.818	379932
150-AO-109E	18.528	400256
150-AO-109F	34.336	74735
150-AO-109G	35.557	76637

Figure 17

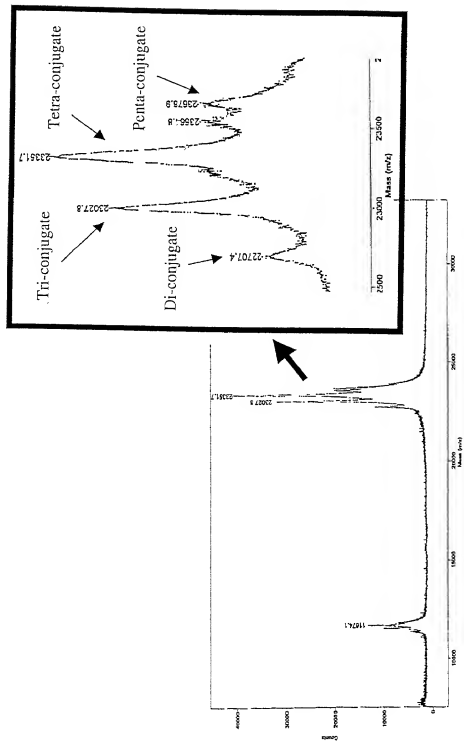


Figure 19

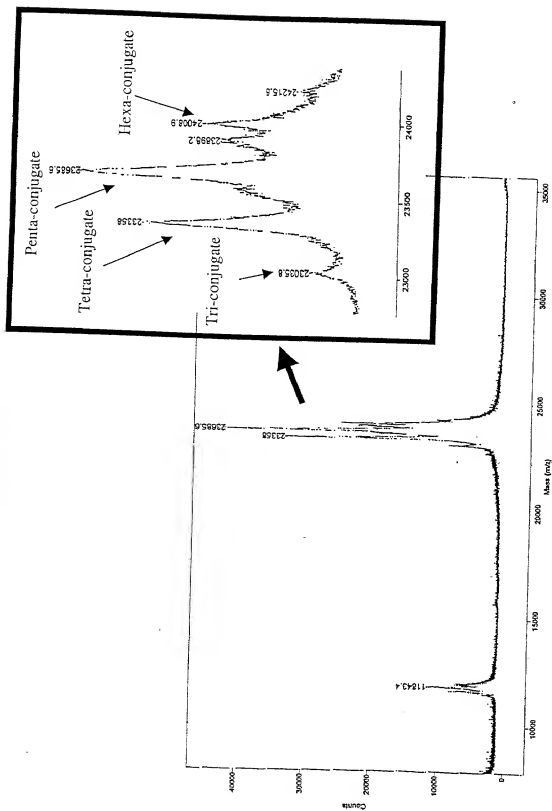


Figure 20

2004.06.26.00

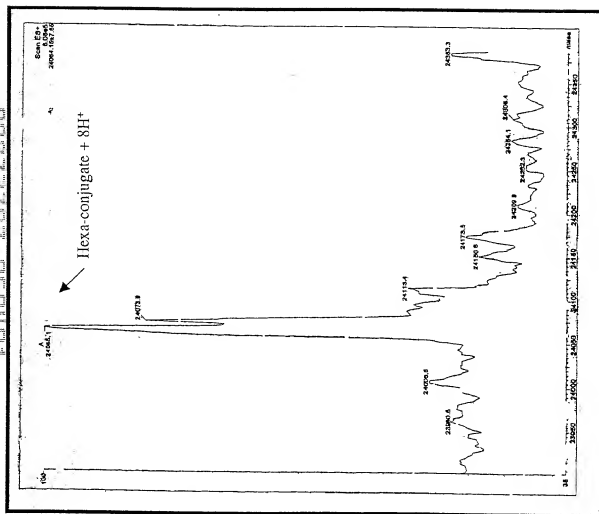


Figure 21

Figure 22

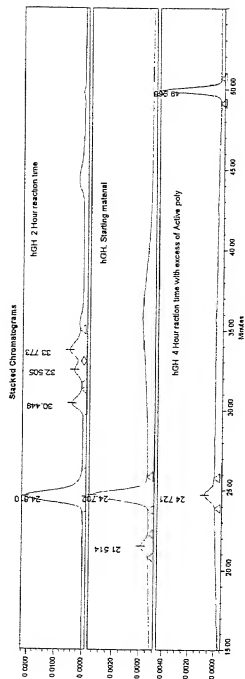


Figure 23

Stacked Chromatograms

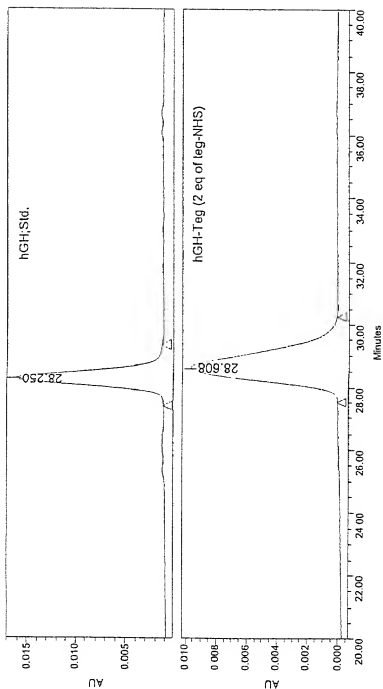


Figure 24

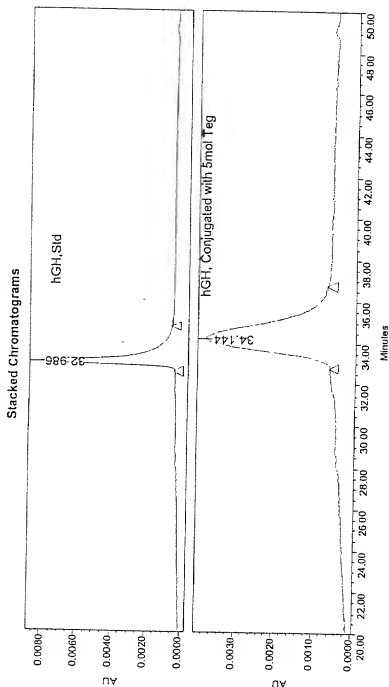


Figure 25

1098727297.D\\C04040

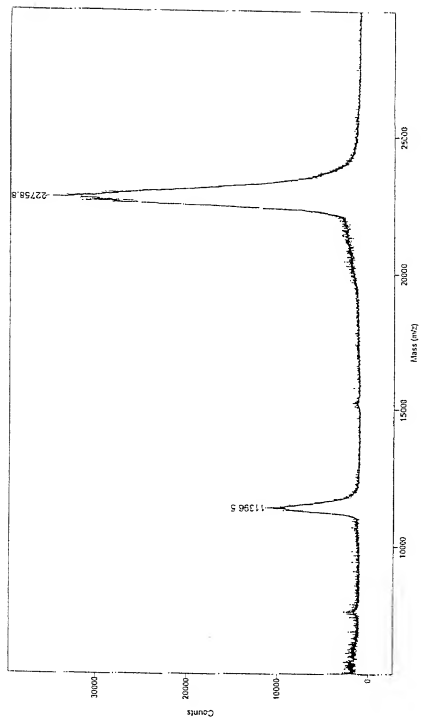


Figure 26

104050-2642869

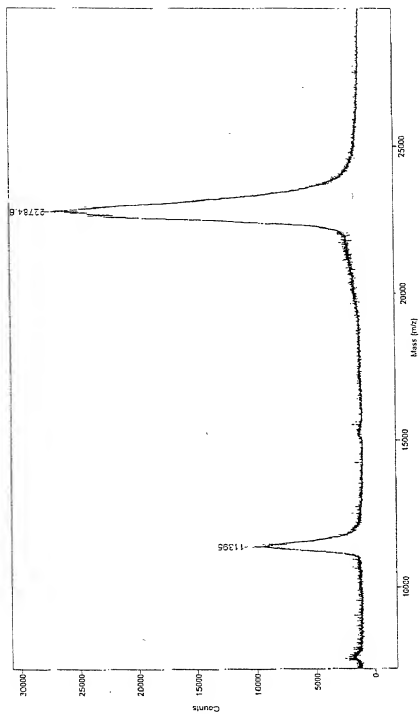


Figure 27

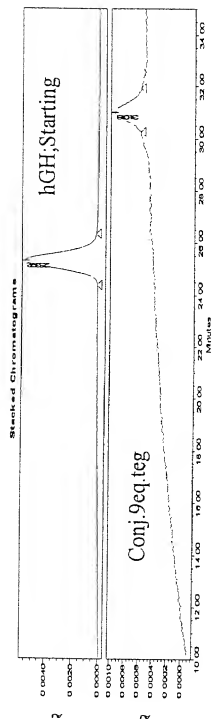


Figure 28

107050-2022800

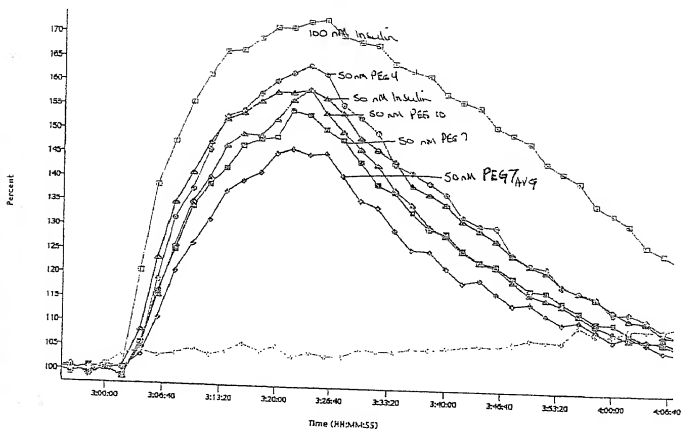


Figure 29

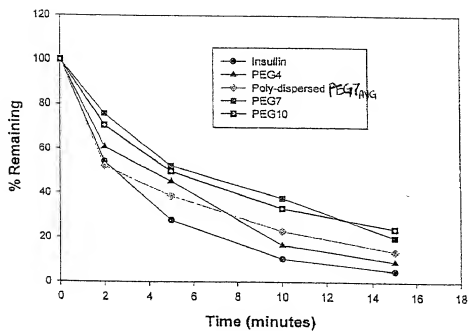


Figure 30

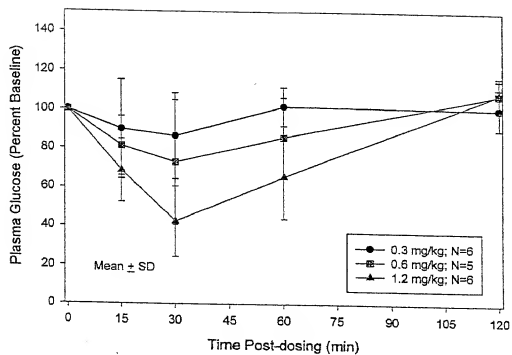


Figure 31

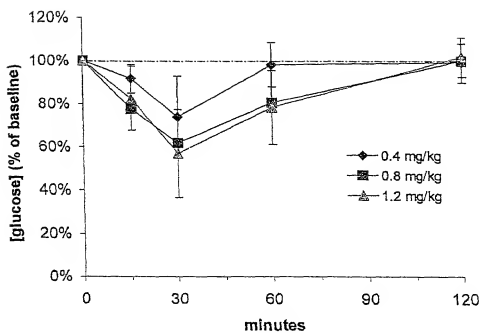


Figure 32

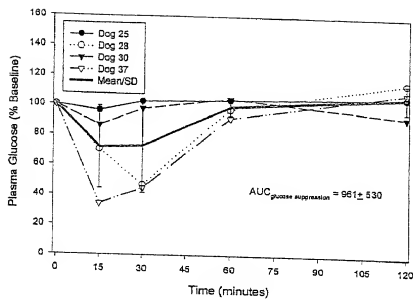


Figure 33

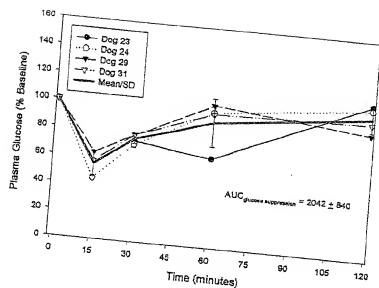


Figure 34

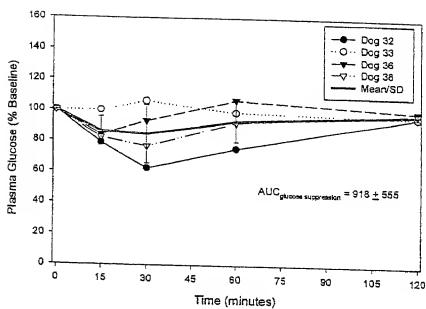


Figure 35

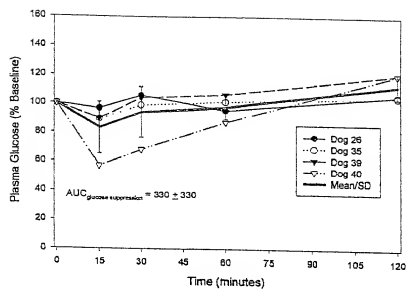


Figure 36

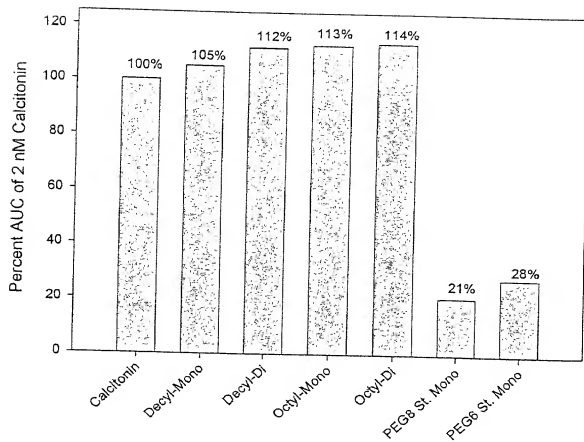


Figure 37

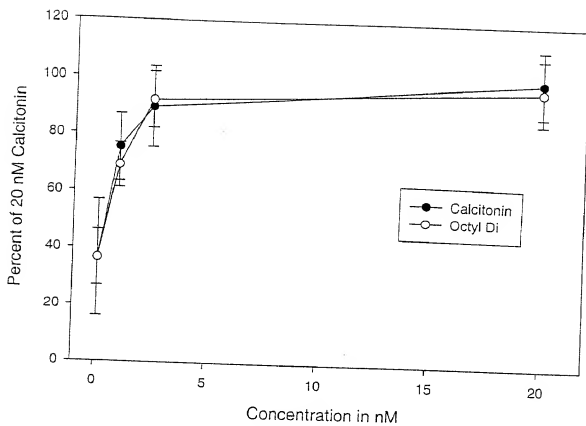


Figure 38

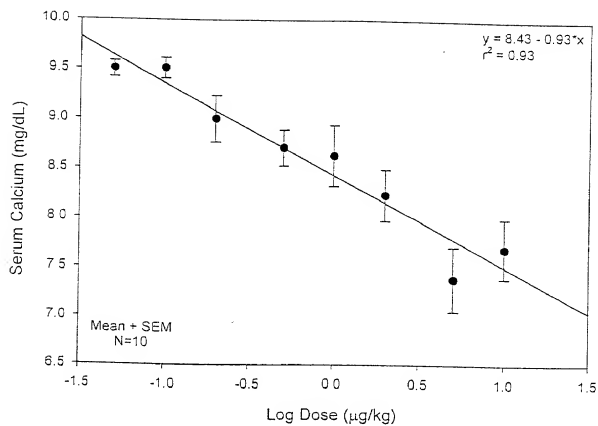


Figure 39

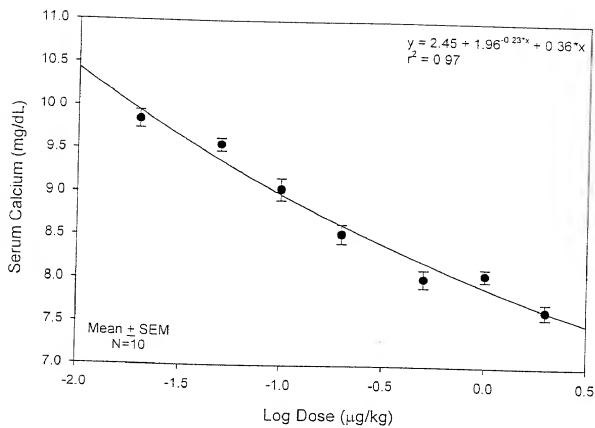


Figure 40

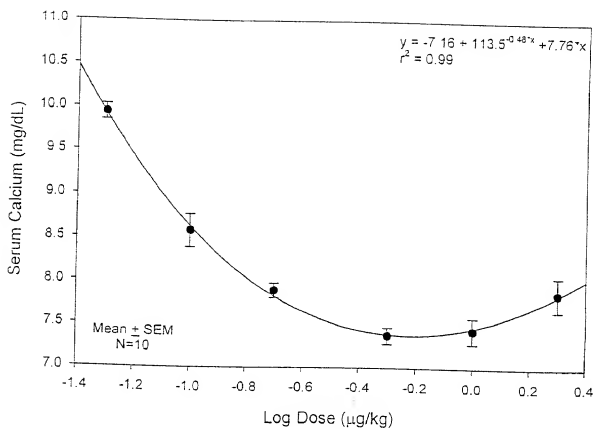


Figure 41

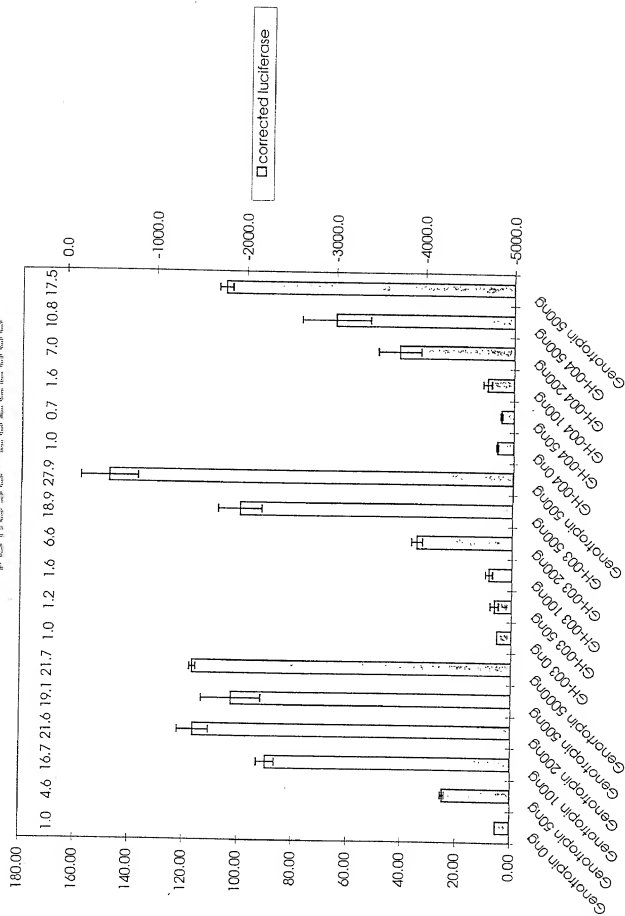


Figure 43